

REVISED AGENDA
UBC COMMISSION
STRUCTURAL ADVISORY COMMITTEE

September 2, 2021 3:00 pm

This agenda is subject to change up to 24 hours prior to the meeting.

Anchor Location

Room 474
Heber M Wells Building
160 E 300 S
Salt Lake City UT

Join with Google Meet

meet.google.com/ufz-rokt-eie

Join by phone

(US) +1 617-675-4444 PIN: 652 777 134 6411#

1. Roll call and welcome new member
2. Approve the minutes from the August 5, 2021 meeting
3. Review proposed amendment for 2018 IBC Section 1901.3 & 2015 IRC Section R403.1.6
4. Complete the review of Chapter 3 of the IEBC
5. Continue with the review of the structural portion of the 2021 IRC starting with Chapter 4

Next Scheduled Meeting: October 7, 2021

Please call Sharon at 530-6163 or email ssmalley@utah.gov if you do not plan on attending this meeting.



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting.
Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84111, Phone 530-6628 or toll-free in Utah only 866-275-3675

AGENDA

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MINUTES

UTAH UNIFORM BUILDING CODE COMMISSION STRUCTURAL ADVISORY COMMITTEE MEETING

August 5, 2021 3:00

CONVENED: 3:20

ADJOURNED 4:46

STAFF:

Sharon Smalley, Board Secretary

COMMITTEE MEMBERS:

Jeremy Achter

Oliver Burt (absent)

John Saunders

Tyler Wright

Josh Blazzard, Commission Liaison (excused)

Patrick Tomasino

Brent Maxfield (excused)

VISITORS:

MINUTES

A motion was made by Tyler Wright to approve the minutes from the July 1, 2021 meeting as written. The motion was seconded by Patrick Tomasino and passed unanimously.

REVIEW OF CHAPTERS 1-3 FROM PATRICK TOMASINO

Mr. Tomasino reviewed the changes he found in Chapters 1-2 of the 2021 IEBC. Following the review, a motion was made by Jeremy Achter to modify the current amendment for IEBC (10)(c) to change the exception number from "4" to "5". The motion was seconded by Patrick Tomasino and passed unanimously.

The committee agreed that the recommendation for amendments (5) Section 305.4.2, (7) Section 705.1 & (11) Section 1012.7.3 needs to be made by the Architectural Advisory Committee.

A motion was made by Jeremy Achter to keep the current amendments for the IEBC number (1) Section 202, (2) Section 202, (3) Section 202, (4) Section 301.3, (6) Section 503.6, (8) Section 706.3.1 and (9) Section 1006.3. The motion was seconded by Patrick Tomasino and unanimously.

Chapter 3 will be covered at the next meeting.

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Uniform Building Code Commission
Structural Advisory Committee
August 5, 2021

Jeremy Achter gave a review of Chapters 1-3 of the 2021 IRC. He found no significant changes.

Tyler Wright gave a review of Chapter 10, 13 and 18 of the 2021 IRC. He reported that he found no changes that pertained to structural.

The meeting adjourned at 4:46.

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: b8@utah.gov
Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Deron Brunson	Date: 12/04/2020
Street Address: 138 East 12300 South #C-196	
City, State, Zip Draper, UT 84020	
Contact Person: Deron Brunson	Phone: 801-571-3199
Code to be Amended: Residential Code 2015 of Utah (Include edition)	
Section: Chapter 4 Foundations	
Section Title: R404 Foundation and Retaining Walls	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

R404 Foundation and Retaining Walls
R403.1.6 (third paragraph)

Wood sole plates at all exterior walls on monolithic slabs, wood sole plates of braced wall panels at building interiors on monolithic slabs and all wood sill plates shall be anchored to the foundation with minimum 1/2-inch-diameter (12.7 mm) anchor bolts spaced a maximum of 6 feet (1829 mm) on center or approved anchors or anchor straps spaced as required to provide equivalent anchorage to 1/2-inch-diameter (12.7 mm) anchor bolts. Bolts shall extend a minimum of 7 inches (178 mm) into concrete or grouted cells of concrete masonry units nor shall they be we-setted. The bolts shall be located in the middle third of the width of the plate. A nut and washer shall be tightened on each anchor bolt. There shall be a minimum of two bolts per plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section. Interior bearing wall sole plates on monolithic slab foundation that are not part of a braced wall panel shall be positively anchored with approved fasteners. Sill plates and sole plates shall be protected against decay and termites where required by Sections R317 and R318.

Purpose of or Reason for the amendment:

In 2009 the Structural Engineers Association of Utah (SEAU) sent a letter to Utah Building Officials declaring that wet setting anchor bolts is not allowed per ACI 318. The analysis given by the SEAU is still current today, and on October 22, 2020 the Structural Engineers Association of California stated the said letter was adequately addressed by the SEAU. In order to clear up any ambiguity the words "nor shall they be wet-setted" have been added to Residential code 2015 of Utah Chapter 4, R404 Foundation and Retaining Walls.

Cost or Savings Impact of Amendment:

Pushing anchor bolts into wet concrete is known as 'wet setting' which is not allowed by ACI 318. Wet setting anchor bolts limits the structural integrity of foundations thus increasing the odds of failure. The added cost factor associated with eliminating the practice of wet setting anchor bolts is negligible in both costs of material and labor- easily affordable, however these costs when compared to the cost of failure stemming from the practice of wet setting along with the liabilities associated therein produces the protection for an insurmountable savings and safety.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): It cannot be predicted on what it may cost a Person to pre-set anchor bolts in order to be in compliance with ACI 318, however if a Person were to purchase a re-usable apparatus that sets the anchor bolt into place before the pouring of concrete, and being that most of the time the Person/labor is doing nothing while they wait for the concrete truck during this time they could set the anchor bolts, such costs could hold a low factor of:
\$.50 per anchor bolt
while its first initial cost could hold a factor of:
\$12.00 per anchor bolt.

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

- ☐ Approved ☐ Denied *5-4-21*
☐ Approved with revisions
☐ Referred to:
☐ Tabled

UBC Commission Decision for Hearing:

- ☐ Approved for hearing ☐ Denied
☐ Approved with revisions
☒ Referred to: *Structural*
☐ Tabled

Date Filed:

Public Hearing Date:

UBC Commission Decision for Adoption:

- ☐ Approved ☐ Denied
☐ Approved with revisions
☐ Referred to:
☐ Tabled

Effective Date:

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: b8@utah.gov
Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person:	Deron Brunson	Date:	12/04/2020
Street Address:	138 East 12300 South #C-196		
City, State, Zip	Draper, UT 84020		
Contact Person:	Deron Brunson	Phone:	801-571-3199
Code to be Amended:	Utah Building Code 2015 (Include edition)		
Section:	Chapter 19 Concrete (1901.3)		
Section Title:	Anchoring to Concrete		

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

1901.3 Anchoring to Concrete

Anchoring to concrete, shall be in accordance with ACI 318 as amended in Section 1905 (which does not allow for the practice of wet-setting), and applies to cast-in (headed bolts, headed studs and hooked J- or L-bolts), post-installed expansion (torque-controlled and displacement-controlled), undercut and adhesive anchors.

Purpose of or Reason for the amendment:

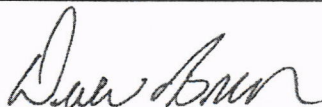
In 2009 the Structural Engineers Association of Utah (SEAU) sent a letter to Utah Building Officials declaring that wet setting anchor bolts is not allowed per ACI 318. The analysis given by the SEAU is still current today, and on October 22, 2020 the Structural Engineers Association of California stated the said letter was adequately addressed by the SEAU. In order to clear up any ambiguity in keeping with ACI 318 the words "(which does not allow for the practice of wet setting)" have been added to Chapter 19, Concrete, Building Code 2015, Utah (1901.3)

Cost or Savings Impact of Amendment:

Pushing anchor bolts into wet concrete is known as 'wet setting' which is not allowed by ACI 318. Wet setting anchor bolts limits the structural integrity of foundations thus increasing the odds of failure. The added cost factor associated with eliminating the practice of wet setting anchor bolts is negligible in both costs of material and labor- easily affordable. When comparing these costs against the cost of failure stemming from the practice of wet setting along with the liabilities associated therein, produces the protection for an insurmountable savings and safety.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): It cannot be predicted on what it may costs a Person to pre-set anchor bolts in order to be in complaint with ACI 318, however, if a Person were to purchase an re-usable apparatus that sets the anchor bolt into place before the pouring of concrete, and being that the anchor bolt could be set into place with the appratus while they wait for the concrete truck to appear at the site, such costs could hold a low factor of :
\$.50 per anchor bolt
while its first initial cost could hold a factor of;
\$12.00 per anchor bolt.

Signature:



Date: 12-4-20

For Division Use:

Date Received:

Committee Action:

- ☐ Approved
☐ Approved with revisions
☐ Referred to:
☐ Tabled

☒ Denied 5-4-21

UBC Commission Decision for Hearing:

- ☐ Approved for hearing ☐ Denied
☐ Approved with revisions
☒ Referred to: Structural
☐ Tabled

Date Filed:

Public Hearing Date:

UBC Commission Decision for Adoption:

- ☐ Approved ☐ Denied
☐ Approved with revisions
☐ Referred to:
☐ Tabled

Effective Date: